

SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLIÇANT: Ginns, Edward I. Egeland, Janice A. Paul, Steven M.
- (ii) TITLE OF INVENTION: Susceptibility Genes for Bipolar Affective Disorder
- (iii) NUMBER OR SEQUENCES: 64
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Townsend and Townsend and Crew
 - (B) STREET: Two Embarcadero Ctr, Suite 800 (C) CITY: San Francisco (D) STATE: California (E) COUNTRY: USA

 - (F) ZIP: 94111

(v) COMPUTER READABLE FORM: (A) MEDIUM TYPE: Floppy disk

- (B) COMPUTER IBM PC compatible
 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

(vi) CURRENT APPLICATION DATA:

- (A) APPLICATION NUMBER: US Not yet assigned
- (B) FILING DATE: Not yet assigned
- (C) CLASSIFICATION:

(viii) ATTORNEY/AGENT INFORMATION:

- (A) NAME: Smith, Timothy L.
 (B) REGISTRATION NUMBER: 35,367
 (C) REFERENCE/DOCKET NUMBER: 015280-0248100

(ix) TELECOMMUNICATION INFORMATION:

- (A) TELEPHONE: (415) 576-0200 (B) TELEFAX: (415) 476-0300

(2) INFORMATION FOR SEQ ID NO: 1

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 18 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID\NO:1:

(ii) MOLECULE TYPE: DNA (genomia)

CTCCAGCCTG GGTCACTA

(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHÀRACTERISTICS:
 - (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

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	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:	
CTAA	rgcatg acaataatat ttcca	25
(2)	INFORMATION FOR SEQ ID NO:3:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:	
ACCT.	AAGCGA CTGCCTAAAC	20
(2)	INFORMATION FOR SEQ ID NO:4:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:	
CTTG	TTCATC TGCCTTGTGC	20
(2)	INFORMATION FOR SEQ ID NO:5:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:	
AGTO	TCATGT GACACAAGGC AG	22
(2)	INFORMATION FOR SEQ ID NO:6:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA (genomic)	

(xi) S	EQUENCE DESCRIPTION: SEQ ID NO:6:	
TGTAACCTGG	G AAGTAAGGCA TG	22
(2) INFORM	MATION FOR SEQ ID NO:7:	
(i) S	SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) M	MOLECULE TYPE: DNA (genomic)	
(xi) S	SEQUENCE DESCRIPTION: SEQ ID NO:7:	
TAGGGCCATC	CCATTCT	16
(2) INFORM	MATION FOR SEQ ID NO:8:	
(i) S	SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) N	MOLECULE TYPE: DNA (genomic)	
(xi) 5	SEQUENCE DESCRIPTION: SEQ ID NO:8:	
CCTACCATTO	G ACACTCTCAG	20
(2) INFOR	MATION FOR SEQ ID NO:9:	
(i) :	SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: DNA (genomic)	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:9:	
TGTAACTAT	T GGGAGGAAAG A	21
(2) INFOR	MATION FOR SEQ ID NO:10:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: DNA (genomic)	

CCCTAAGGGG TCTCTGAAGA

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:	
TTGT	GTAGGA CTCTCTAGTT T	21
(2)	INFORMATION FOR SEQ ID NO:11:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:	
GATT	TGAAAA TGAGCAGTCC	20
(2)	INFORMATION FOR SEQ ID NO:12:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:	
GTCG	GGCACT ACGTTTATCT	20
(2)	THEODMATION FOR CEO TO NO.12.	
(2)	INFORMATION FOR SEQ ID NO:13:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:	
GCAC	CCAACAA CTTATCCCAA	20
(2)	INFORMATION FOR SEQ ID NO:14:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:	

(2)	INFORMATION FOR SEQ ID NO:15:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:	
AGCT	TGTGCA TGTGTGCA	18
(2)	INFORMATION FOR SEQ ID NO:16:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:	
CAA	AGTCCCA GCAGGTTC	18
(2)	INFORMATION FOR SEQ ID NO:17:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:	
AGC	TGAACCC AATGGACT	18
(2)	INFORMATION FOR SEQ ID NO:18:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:	
TT	CATGCCA CCAACAAA	18

(2)	INFORMATION FOR SEQ ID NO:19:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:	
ATG'	TTAAAT TAATAACGTG ACAGT	25
(2)	INFORMATION FOR SEQ ID NO:20:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:	
GAC	TCATCT GGATTCACAA	20
(2)	INFORMATION FOR SEQ ID NO:21:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:	
AAC	AGAAAAT CCGTAACATA ACATA	25
(2)	INFORMATION FOR SEQ ID NO:22:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:	
AC'	TTTGTGC CATTTAGAGA TT	22

(2)	NFORMATION FOR SEQ ID NO:23:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:	
AGC'	TTAACT TCCATGAGTT TC	22
(2)	INFORMATION FOR SEQ ID NO:24:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:	
CTA	TCTCTG GTGCATAGTG A	21
(2)	INFORMATION FOR SEQ ID NO:25:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:	
TCI	AGCAGT AATTGTCACT CCTT	24
(2)	INFORMATION FOR SEQ ID NO:26:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:	
AC	FACCATC CCATGGTTAT	20

(2) INFORMATION FOR SEQ ID NO:27:

	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
4	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:	
TCTG	TGATTT TGCCATTATG AG	22
(2)	INFORMATION FOR SEQ ID NO:28:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:	
TAAA	CTGGAA TTTTTGACTA TGAGC	25
(2)	INFORMATION FOR SEQ ID NO:29:	
(2)		
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:	
CTAP	AGGAGGC AACAGCAAAG	20
(2)	INFORMATION FOR SEQ ID NO:30:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:	
ATG'	TAAAGAC TGGTATCTGT AGCAC	25

(2)	INFORMATION FOR SEQ ID NO:31:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:	
TCAF	AGTAAGG CATTATTATA CAGA	24
(2)	INFORMATION FOR SEQ ID NO:32:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:	
CCAC	CAAGCTG GACTGAGAAT	20
(2)	INFORMATION FOR SEQ ID NO:33:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:	
CTG	AACAGGT TGAAGTGTCC	20
(2)	INFORMATION FOR SEQ ID NO:34:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:	
CTT	GGAATGC CTGAGGAC	18

(2)	INFO	RMATION FOR SEQ ID NO:35:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA (genomic)	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:35:	
CTA	AGTCC'	IC CACACTAGCC	20
(2)	INFO	RMATION FOR SEQ ID NO:36:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA (genomic)	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:36:	
CTA	AAATG	GG AACAGGGC	18
(2)	INFO	RMATION FOR SEQ ID NO:37:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA (genomic)	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:37:	
TGC	CGGTA	GT AACATCTG	18
(2)	INFO	RMATION FOR SEQ ID NO:38:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA (genomic)	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:38:	
CCA	AGGAT	AA AGTATTTGTĠ TC	22

(2)	INFOF	RMATION FOR SEQ ID NO:39:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA (genomic)	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:39:	
AGCT	'GAGA	AA TGCCTTCTAT AAAT	24
(2)	INFOR	RMATION FOR SEQ ID NO:40:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA (genomic)	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:40:	
GAGG	GCCA	CC TTGATAGT	18
(2)	INFO	RMATION FOR SEQ ID NO:41:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA (genomic)	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:41:	
AGC	TCAT	AC ACTGAAATTG TTG	23
(2)	INFO	RMATION FOR SEQ ID NO:42:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(i,i,)	MOLECULE TYPE: DNA (genomic)	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:42:	
CAC	CGGGA	AA CCTTGAT	17

(2) INFORMATION FOR SEQ ID NO:43:

	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA (genomic)	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:43:	
GTG	AGCCAJ	AG ATGGCACTAC	20
(2)	INFO	RMATION FOR SEQ ID NO:44:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA (genomic)	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:44:	
GCC	AGCAA	TA ATGGGAAGTT	20
201	TNEO	RMATION FOR SEQ ID NO:45:	
(2)			
×	(1)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA (genomic)	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:45:	
TGG	STAGTA	ACC CCTGGATACC TG	22
		DENOMINATION FOR GEO ID NO.46.	
(2)		ORMATION FOR SEQ ID NO:46:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	
		(D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:46:	
AA	TCTTT	GTG GATATGGCTC TGCT	24

(2) INFORMATION FOR SEQ ID NO:47:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:47:	20
TTGTATCAGG GATTTGGTTA	
(2) INFORMATION FOR SEQ ID NO:48:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:48:	*
TGTTGTCGCT TCAGTACATA	20
(2) INFORMATION FOR SEQ ID NO:49:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:49:	
GATCCGTCAC ATAATGGC	18
(2) INFORMATION FOR SEQ ID NO:50:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:50:	18
ACACCTCAGC TTTCCTGG	



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(2)	INFOR	RMATION FOR SEQ ID NO:51:		
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	- ··	
	(ii)	MOLECULE TYPE: DNA (genomic)		
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:51:		
AAAC	CATAGT	TG CTCTGGAGGC		
(2)	INFOR	RMATION FOR SEQ ID NO:52:		
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear		
•	(ii)	MOLECULE TYPE: DNA (genomic)		
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:52:		
GGG	CTAACA	AA CAGTGTCTGC		
(2)	INFOR	RMATION FOR SEQ ID NO:53:		
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear		
	(ii)	MOLECULE TYPE: DNA (genomic)		
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:53:		
CAC	TCCAG	CC TAAGGAACAC		
(2)	INFO	RMATION FOR SEQ ID NO:54:		
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear		
	(ii)	MOLECULE TYPE: DNA (genomic)		

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:54:

TGTCAAAGAT GGCTTTTATT ACC

(2) INFORMATION FOR SEQ 1D NO:55:		
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	- ···	
(ii) MOLECULE TYPE: DNA (genomic)	•	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:55:		
AAGAGTAAAA CTCCGTCACA AACAC		25
(2) INFORMATION FOR SEQ ID NO:56:		
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 		
(ii) MOLECULE TYPE: DNA (genomic)		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:56:		
AGATTTGAGT CTCTGCACAG TAAG		24
(2) INFORMATION FOR SEQ ID NO:57:		
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 		
(ii) MOLECULE TYPE: DNA (genomic)		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:57:		
AATTCTGCTC ATTGGGG		17
(2) INFORMATION FOR SEQ ID NO:58:		
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 		
(ii) MOLECULE TYPE: DNA (genomic)		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:58:		
The second of th		20

(2)	INFORMATION FOR SEQ ID NO:59:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:	
AAGC	ATCAAA GTGTAACTCA GACC	24
(2)	INFORMATION FOR SEQ ID NO:60:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:	
TTGG	AGCCTG TGTATGTGTG	20
(2)	INFORMATION FOR SEQ ID NO:61:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:61:	
GGT	CTGCCT CCTAACA	17
(2)	INFORMATION FOR SEQ ID NO:62:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:62:	
aan.	COCOMMO MONTACA	17

(2) INFORMATION FOR SEQ ID NO:63: (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 20 base pairs

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECTLE TYPE: DNA (genomic) (xi) SEQUENCE DESCRIPTION: SEQ ID NO:63: 20 CTGTATGGCC TCAGTGTCGG (2) INFORMATION FOR SEQ ID NO:64: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs
(B) TYPE: \nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (genomic) 1 120 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:64: ľŲ # 20 AGCTCTGTGC GGAAGTCCCT 1 i alla

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